

8-13-12

SOLVING ALGEBRAIC EQUATIONS

** Find what the variable (letter) is equal to that makes the equation true
(Substitute easy #s to figure out the process)

$\boxed{+}$

$$2.71 + x = 12.500$$

Subtract to solve

$$\begin{array}{r} 12.50 \\ - 2.71 \\ \hline 9.79 \end{array}$$

$$x = 9.79$$

Think easy #s

$$4 + x = 6$$

$$6 - 4 = 2$$

$$x = 2$$

$$\begin{array}{r} 12.50 \\ - 2.71 \\ \hline 9.79 \end{array}$$

$$9.79$$

$$9.79$$

$$x = 9.79$$

$\boxed{-}$

$$x - 1.05 = 6.200$$

Add to solve

$$\begin{array}{r} 6.20 \\ + 1.05 \\ \hline 7.25 \end{array}$$

$$x = 7.25$$

Think easy

$$x - 1 = 6$$

$$6 + 1 = 7$$

$$x = 7$$

$\boxed{\times}$

$$5.3x = 10.07 \quad \circ \circ$$

Divide to solve

$$\begin{array}{r} 1.9 \\ 5.3 \overline{) 10.07} \\ \underline{53} \\ 477 \\ \underline{-477} \\ 0 \end{array}$$

Think easy

$$5 \times x = 10$$

$$10 \div 5 = 2$$

$$x = 2$$

$$\begin{array}{r} 2 \\ 53 \\ \times 9 \\ \hline 477 \end{array}$$

$\boxed{\div}$

$$\frac{x}{0.2} = 6 \quad \circ \circ$$

Think easy

$$\frac{x}{2} = 6$$

$$2 \times 6 = 12$$

$$x = 12$$

Multiply to solve

$$6 \times 0.2$$

$$\begin{array}{r} 6 \\ \times 0.2 \\ \hline 1.2 \end{array}$$

$$x = 1.2$$